



Project: B-3651
County: GUILFORD

PROJECT SPECIAL PROVISIONS
Utility Construction

I. GENERAL CONSTRUCTION REQUIREMENTS:

Specifications:

The proposed utility construction shall meet the applicable requirements of the NC Department of Transportation's "Standard Specifications for Roads and Structures dated January 2002, and the following provisions.

The depth of pipeline installation may vary to achieve minimum clearance of existing or proposed utilities or storm drainage while maintaining the minimum cover specified (whether existing or proposed pipelines, conduits, cables, mains, and storm drainage are shown on the plans or not).

Owner and Owner's Requirements:

The existing utilities belong to the City of Greensboro. The Contractor shall provide access for the owner's representatives to all phases of construction. Notify the owner two weeks before commencement of any work and one week before service interruption.

The owners shall be notified in advance of any interruptions of water service with ample time to make arrangements. Interruptions of water service on main lines shall be limited to a maximum of 4 hours unless approved by the Engineer.

Utility Locations Shown on the Plans:

The location, size, and type material of the existing utilities shown on the plans are from the best available information. The Contractor will be responsible for determining the exact location, size, and type material of the existing facilities necessary for the construction of the proposed utilities and to avoid damage to existing facilities.

II. Compensation:

No direct payment will be made for utility construction work required by the preceding provisions, which are general requirements applying to utility construction, and all of the requirements stated will be considered incidental work, paid for at the contract unit prices of the various utility items included in the contract.

1. FOUNDATION CONDITIONING AND PIPE BEDDING:

Where the subgrade is found to be unstable or to include ashes, cinders, refuse, organic material or other unsuitable material, such material shall be removed to a minimum of 3", or to a depth ordered by the Engineer, and replaced with a foundation and bedding of crushed stone, suitably graded, and acting as an impervious mat into which the unsuitable soil or unsuitable material will not penetrate. The depth of crushed stone used for foundation and bedding shall depend upon the severity of the condition of the trench bottom soil or material. The amount of crushed stone to be used by the Contractor shall in all cases, be designated by the Engineer.

Pipe bedding shall be carefully placed so that the pipe after installation will be true to line and grade.

Surface grade bedding stone beneath the pipe to provide a uniform and continuous support beneath the pipe at all points between bell holes or pipe joints. Densify bedding stone beneath the pipe.

After each pipe has been brought to grade, aligned, and placed in final position, deposit and densify sufficient bedding material under the pipe haunches and on each side of the pipe to hold the pipe in proper position during subsequent pipe joining, bedding, and backfilling operations. Deposit bedding material uniformly and simultaneously on each side of the pipe to prevent lateral displacement.

The quantity of foundation conditioning material, measured as provided in Subarticle 300-8(B)(2), will be paid for at the contract unit price per ton for "No. _____ Stone for Foundation Conditioning". Such price and payment will be

full compensation for all work of foundation conditioning including all pipe undercut excavation, furnishing, placing, and compaction of foundation conditioning material, shaping the pipe foundation, and hauling and disposing of the undercut materials.

The quantity of bedding material, measured as provided in Subarticle 300-8(D) will be paid for at the contract unit price per ton for "No. _____ Stone for Pipe Bedding". Such prices and payments will be full compensation for all work of furnishing, placing, compaction, and shaping the bedding material in accordance with the preceding provisions.

2. DUCTILE IRON "RESTRAINED JOINT" WATER PIPE:

Ductile Iron Restrained Joint Water Pipe shall be installed in accordance with the applicable utility provisions herein, as shown on the utility plans and/or as directed by the Engineer.

Ductile Iron Restrained Joint Water Pipe shall be of the thickness class and pressure rating shown on the utility plans and shall conform to ANSI A21.51 (AWWA C151) Push-on joints for such pipe shall be in accordance with ANSI A21.11 (AWWA C111). Pipe thickness shall be designed in accordance with ANSI A21.50 (AWWA C150) and based on laying conditions and internal pressures as stated on the plans.

Cement mortar lining and seal coating for pipe shall be in accordance with ANSI A21.4 (AWWA C104). Bituminous outside coating shall be in accordance with ANSI A21.51 (AWWA C151).

All Ductile Iron Restrained Joint Water Pipe shall be installed in accordance with laying condition Type 2 as stated in ANSI A21.51 (AWWA C151) unless otherwise shown on the plans.

Ductile Iron Restrained Joint Water Pipe, installed in accordance with the plans and provisions herein and accepted, will be measured along the pipe from end to end, with no deductions for fittings and valves, and paid for at the contract unit price per linear foot for, "_____" DI Restrained Joint Water Pipe, PC _____". Such prices and payments will be full compensation for all materials, including pipe accessories, excavation, labor, pressure

testing, sterilization, backfilling, and incidentals necessary to complete the work as required.

**PROJECT: 33197.1.1 (B-3651)
COUNTY: GUILFORD**

**PROJECT SPECIAL PROVISIONS
UTILITY**

GENERAL:

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES THAT WILL BE IN CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT:

- A. DUKE ENERGY**
- B. BELLSOUTH**
- C. TIME WARNER**
- D. MCI**
- E. PIEDMONT NATURAL GAS COMPANY**

THE CONFLICTING FACILITIES OF THESE CONCERNS WILL BE ADJUSTED PRIOR TO THE DATE OF AVAILABILITY UNLESS OTHERWISE NOTED AND ARE THEREFORE LISTED IN THESE SPECIAL PROVISIONS FOR THE BENEFIT OF THE CONTRACTOR. ALL UTILITY WORK LISTED HEREIN WILL BE DONE BY THE UTILITY OWNERS. ALL UTILITIES ARE SHOWN ON THE PLANS FROM THE BEST AVAILABLE INFORMATION.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 105.8 OF THE STANDARD SPECIFICATIONS.

A. DUKE ENERGY

1. STATION 10+92 TO 27+60 -L-

A TEMPORARY OVERHEAD POWER POLE LINE WITH TEMPORARY TELEPHONE AND CATV ATTACHED WILL BE INSTALLED OUTSIDE THE EXISTING RIGHT OF WAY ALONG THE WEST SIDE OF SR 3143 (MILLSTREAM ROAD) FROM STATION 10+92± -L- TO STATION 17+70± -L- AND A PERMANENT POWER POLE LINE WITH TELEPHONE AND CATV ATTACHED WILL BE INSTALLED INSIDE THE EXISTING RIGHT OF WAY FROM STATION 20+96± -L- TO STATION 27+60± LEFT AND RIGHT OF -L- AND THE EXISTING POWER POLE LINE WITH TELEPHONE AND CATV ATTACHED WILL BE DISMANTLED AND REMOVED BEFORE THE DATE OF AVAILABILITY. A PERMANENT POWER LINE WITH TELEPHONE AND CATV ATTACHED LOCATED ON THE EAST SIDE OF SR 3143 (MILLSTREAM ROAD) FROM RIGHT OF STATION 10+50± -L- AND TYING TO THE POLE LEFT OF STATION 20+96± -L- ON THE WEST

SIDE OF SR 3143 (MILSTREAM ROAD) WILL BE INSTALLED AFTER ALL CONSTRUCTION IS COMPLETED AND THE TEMPORARY POWER POLE LINE WITH TELEPHONE AND CATV ATTACHED WILL BE DISMANTLED AND REMOVED. SEE UTILITIES BY OTHERS PLANS FOR DETAILS.

B. BELLSOUTH

- 1. BELLSOUTH WILL ADJUST EXISTING BURIED TELEPHONE LINES AS NECESSARY NEAR THE BEGINNING OF THE PROJECT TO AVOID CONFLICT WITH PROPOSED DRAINAGE. THE CONTRACTOR SHOULD GIVE BELLSOUTH A TWO (2) WEEKS NOTICE AND FIVE (5) DAYS TO COMPLETE THEIR WORK.. SEE UTILITIES BY OTHERS PLANS FOR DETAILS.**

C. TIME WARNER

- 1. STATION 10+92 TO STATION 27+60 LINE-L- SEE DUKE ENERGY WRITE-UP AND UTILITIES BY OTHERS PLANS FOR DETAILS.**

D. MCI

- 1. STATION 10+92 TO STATION 27+60 LINE -L- SEE DUKE ENERGY WRITE-UP AND UTILITIES BY OTHERS PLANS FOR DETAILS.**

E. PIEDMONT NATURAL GAS COMPANY

- 1. THE EXISTING GAS LINE ALONG THE WEST SIDE OF SR 3143 (MILSTREAM ROAD) FROM STATION 10+ 50 -L- TO STATION 27+29.23 -L- SHALL REMAIN IN PLACE AND BE ADJUSTED AS NECESSARY. IF ANY WORK IS REQUIRED, THE CONTRACTOR SHALL GIVE THE GAS COMPANY A 10 DAY NOTICE AND TWO (2) WEEKS TO COMPLETE THEIR WORK. SEE UTILITIES BY OTHERS PLANS FOR DETAILS.**